

through the second automatic valve and is condensed in the direct contact condensation zone releasing heat to the heat sink.

64. The apparatus defined by claim 63, wherein the conduit includes a tube, a multiple tube assembly, multiple connected conduits, or multivoid metal blocks.

65. The apparatus as claimed in Claim 64, wherein heat conductive fins are positioned within the tube, the conduits of said multiple tube assembly, the tubes of said multiple connected tubes, or the voids of said multi-void block of said conduit.

REMARKS

Reexamination and reconsideration in light of the foregoing amendment and following remarks is respectfully requested. Claims 31-35, 40, 41, 43 and 47-65 are pending in this application. Claims 28-30, 36-39, 42 and 44-46 have been canceled and represented as new claims 53-65. Claims 31-35, 40, 41, 43 and 47-52 have been withdrawn from consideration due to a restriction requirement, which the Examiner has made final.

Applicants appreciate the Examiner's consideration of the art cited in the Information Disclosure Statements filed January 28, 2000 and May 24, 2000. Applicants note the Examiner's footnote in the IDS dated May 24, 2000 that the "International Search Report dated March 20, 2000 was not considered because it was not prior art.

Claims 28-30, 36-39, 42 and 44-46 have been canceled thereby rendering the rejection under 35 U.S.C. § 112, second paragraph, and the rejections under 35 U.S.C. § 102(b) and 103(a) over Cheng (U.S. Patent No. 5,526,653) moot. The claims have been replaced by new claims 53-65 which are believed to be patentable over Cheng and comply with the requirements of 35

U.S.C. § 112. The claims define a method and apparatus using a heat temperature rising unit. This feature of the invention is not disclosed or suggest by Cheng. The heat temperature rising unit is a critical unit of the invention and performs a function that is not disclosed or suggested by the prior art. . Heat is transferred from a first heat carrying medium vapor to a heat temperature raising medium contained within a heat temperature rising unit which is at a first pressure. The pressure in the unit is changed to a higher pressure resulting in a transfer of heat via the latent heat of fusion from the heat temperature raising medium under pressure in the riser unit such that the temperature of the heat temperature rising medium is increased and the heat is transferred to form a second heat carrying medium vapor which then is brought into contact with the heat sink.

CONCLUSION

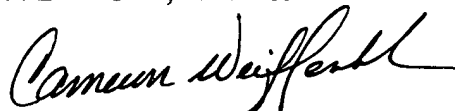
For the foregoing reasons, it is submitted that the claims 53-65 are believed to be patentable over the teachings of Cheng and comply with the requirements of 35 U.S.C. § 112. Accordingly, favorable reconsideration of the claims is requested in light of the remarks. Allowance of the claims is courteously solicited.

Application No. 09/373,605

A petition for a one-month extension of time under 37 CFR 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

McDERMOTT, WILL & EMERY

A handwritten signature in black ink, appearing to read "Cameron Weiffenbach", written in a cursive style.

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